

MEASURING DISTANCES USING MULTISTATIC PROBES

ABSTRACT

5 The disclosed technology pertains to multistatic probes that can determine distances associated with points of interest. A multistatic probe can include transmitting and receiving conductive elements that are electrically distinct and which are capable of conveying electromagnetic energy in proximity to/from points of interest. The conductive elements can be arranged to be adjacent to a coupler that is positioned at a point of interest, whereby an
10 electromagnetic signal transmitted on the transmitting conductive element causes a change in capacitance in the transmitting conductive element upon the electromagnetic signal traversing a part of the transmitting conductive element substantially adjacent to the coupler, which causes a corresponding electromagnetic signal to be coupled to the receiving conductive element. Attributes of the received electromagnetic signal can be evaluated relative to the transmitted
15 electromagnetic signal to determine a distance associated with the points of interest.